

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	96	(network and (plurality near2 servers) and (cumulative same3 backup)) and (periodic with backup)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/13 13:11
L2	36	((back\$up) with (target adj3 object\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/13 13:10
L3	6445	(back\$up with object\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/13 13:11
L4	273	L3 and (cumulative same3 backup) and (full near3 backup)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/13 13:12
L5	28	L4 and (off\$line with backup)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/13 13:14
L6	94	(FULL near3 BACK\$UP) and cumulative and object\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/13 13:14
L7	2	L6 and (off\$line with backup)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/13 13:14
L8	38	(FULL near3 BACK\$UP) and cumulative and object\$1 and (back\$up with restor\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/13 13:25
L9	2	((FULL near3 BACK\$UP) and cumulative and object\$1 and (back\$up with restor\$5)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/13 13:26

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L10	1	((FULL near3 BACK\$UP) and cumulative and object\$1 and (back\$up with restor\$5)).clm.	US-PGPUB	OR	ON	2007/09/13 13:25
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1 [Classics in software engineering](#)

January 1979 Divisible Book

Publisher: Yourdon Press

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2 [Level II technical support in a distributed computing environment](#)

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services SIGUCCS '96**

Publisher: ACM Press

Full text available: [pdf\(5.73 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



3 [Artificial intelligence](#)

Elaine Rich

January 1983 Book

Publisher: McGraw-Hill, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [review](#)



The goal of this book is to provide programmers and computer scientists with a readable introduction to the problems and techniques of artificial intelligence (A.I.). The book can be used either as a text for a course on A.I. or as a self-study guide for computer professionals who want to learn what A.I. is all about.

The book was designed as the text for a one-semester, introductory graduate course in A.I. In such a course, it should be possible to cover all of the material in the boo ...

4 [Observing the evolution of internet as topology](#)

Ricardo V. Oliveira, Beichuan Zhang, Lixia Zhang

August 2007 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2007 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '07**, Volume 37 Issue 4



Publisher: ACM Press

Full text available:  pdf(439.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Characterizing the evolution of Internet topology is important to our understanding of the Internet architecture and its interplay with technical, economic and social forces. A major challenge in obtaining empirical data on topology evolution is to identify *real* topology changes from the *observed* topology changes, since the latter can be due to either topology changes or transient routing dynamics. In this paper, we formulate the topology *liveness problem* and propose a so ...

Keywords: internet topology, topology evolution

5 Mobile services: Reincarnating PCs with portable SoulPads

 Ramón Cáceres, Casey Carter, Chandra Narayanaswami, Mandayam Raghunath
June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**

Publisher: ACM Press

Full text available:  pdf(199.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The ability to walk up to any computer, personalize it, and use it as one's own has long been a goal of mobile computing research. We present *SoulPad*, a new approach based on carrying an auto-configuring operating system along with a suspended virtual machine on a small portable device. With this approach, the computer boots from the device and resumes the virtual machine, thus giving the user access to his personal environment, including previously running computations. *SoulPad* ha ...

6 Special issue: AI in engineering

 D. Sriram, R. Joobhani
April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available:  pdf(8.79 MB) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

7 Survey of software tools for evaluating reliability, availability, and serviceability

 Allen M. Johnson, Miroslaw Malek
September 1988 **ACM Computing Surveys (CSUR)**, Volume 20 Issue 4

Publisher: ACM Press

Full text available:  pdf(3.79 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In computer design, it is essential to know the effectiveness of different design options in improving performance and dependability. Various software tools have been created to evaluate these parameters, applying both analytic and simulation techniques, and this paper reviews those related primarily to reliability, availability, and serviceability. The purpose, type of models used, type of systems modeled, inputs, and outputs are given for each package. Examples of some of the key modeling ...

8 An empirical study of the CRAY Y-MP processor using the Perfect club benchmarks

 Sriram Vajapeyam, Gurindar S. Sohi, Wei-Chung Hsu
April 1991 **ACM SIGARCH Computer Architecture News , Proceedings of the 18th annual international symposium on Computer architecture ISCA '91**, Volume 19 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.33 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Enabling contribution awareness in an overlay broadcasting system 

◆ Yu-Wei Sung, Michael Bishop, Sanjay Rao

August 2006 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '06**, Volume 36 Issue 4

Publisher: ACM Press

Full text available:  pdf(389.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We consider the design of bandwidth-demanding broadcasting applications using overlays in environments characterized by hosts with limited and asymmetric bandwidth, and significant heterogeneity in outgoing bandwidth. Such environments are critical to consider to extend the applicability of overlay multicast to mainstream Internet environments where insufficient bandwidth exists to support all hosts, but have not received adequate attention from the research community. We leverage the multi-tree ...

Keywords: incentive, multi-tree, overlay multicast

10 Precision synchronization of computer network clocks 

◆ David L. Mills

April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.53 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper builds on previous work involving the Network Time Protocol, which is used to synchronize computer clocks in the Internet. It describes a series of incremental improvements in system hardware and software which result in significantly better accuracy and stability, especially in primary time servers directly synchronized to radio or satellite time services. These improvements include novel interfacing techniques and operating system features. The goal in this effort is to improve the ...

11 Profile-based pretenuring 

◆ Stephen M. Blackburn, Matthew Hertz, Kathryn S. McKinley, J. Eliot B. Moss, Ting Yang

January 2007 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 29 Issue 1

Publisher: ACM Press

Full text available:  pdf(2.57 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Pretenuring can reduce copying costs in garbage collectors by allocating long-lived objects into regions that the garbage collector will rarely, if ever, collect. We extend previous work on pretenuring as follows: (1) We produce pretenuring advice that is neutral with respect to the garbage collector algorithm and configuration. We thus can and do combine advice from different applications. We find for our benchmarks that predictions using object lifetimes at each allocation site in Java program ...

Keywords: Garbage collection, lifetime prediction, pretenuring, profiling

12 SIGART special issue on machine learning 

◆ April 1981 **ACM SIGART Bulletin**, Issue 76

Publisher: ACM Press

Full text available:  pdf(3.33 MB) Additional Information: [full citation](#), [abstract](#)

Current research on Machine Learning encompasses a diverse set of approaches, and of opinions regarding where the important issues lie. The significant increase of interest and research activity in Machine Learning over the past few years has led us to organize this special issue of SIGART, whose purpose is to provide a snapshot of current research in this field. This issue contains a set of summaries of ongoing research, solicited from the community at large, and received from thirty-five resea ...

13 Query evaluation techniques for large databases

◆ Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available:  pdf(9.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

14 Bayeux: an architecture for scalable and fault-tolerant wide-area data dissemination

◆ Shelley Q. Zhuang, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz, John D. Kubiatowicz
January 2001 **Proceedings of the 11th international workshop on Network and operating systems support for digital audio and video NOSSDAV '01**

Publisher: ACM Press

Full text available:  pdf(272.26 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The demand for streaming multimedia applications is growing at an incr edible rate. In this paper, we propose Bayeux, an efficient application-level multicast system that scales to arbitrarily large receiver groups while tolerating failures in routers and network links. Bayeux also includes specific mechanisms for load-balancing across replicate root nodes and more efficient bandwidth consumption. Our simulation results indicate that Bayeux maintains these properties while keeping transmi ...

15 Toward kilo-instruction processors

◆ Adrián Cristal, Oliverio J. Santana, Mateo Valero, José F. Martínez
December 2004 **ACM Transactions on Architecture and Code Optimization (TACO)**, Volume 1 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.16 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The continuously increasing gap between processor and memory speeds is a serious limitation to the performance achievable by future microprocessors. Currently, processors tolerate long-latency memory operations largely by maintaining a high number of in-flight instructions. In the future, this may require supporting many hundreds, or even thousands, of in-flight instructions. Unfortunately, the traditional approach of scaling up critical processor structures to provide such support is impractica ...

Keywords: Memory wall, instruction-level parallelism, kilo-instruction processors, multicheckpointing

16 The evolution of Coda



◆ M. Satyanarayanan

May 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 2

Publisher: ACM Press

Full text available: pdf(441.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Failure-resilient, scalable, and secure read-write access to shared information by mobile and static users over wireless and wired networks is a fundamental computing challenge. In this article, we describe how the Coda file system has evolved to meet this challenge through the development of mechanisms for server replication, disconnected operation, adaptive use of weak connectivity, isolation-only transactions, translucent caching, and opportunistic exploitation of hardware surrogates. For eac ...

Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, continuous data access, data staging, disaster recovery, disconnected operation, failure, high availability, hoarding, intermittent networks, isolation-only transactions, low-bandwidth networks, mobile computing, optimistic replica control, server replication, translucent cache management, weakly connected operation

17 File system usage in Windows NT 4.0



◆ Werner Vogels

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.75 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We have performed a study of the usage of the Windows NT File System through long-term kernel tracing. Our goal was to provide a new data point with respect to the 1985 and 1991 trace-based File System studies, to investigate the usage details of the Windows NT file system architecture, and to study the overall statistical behavior of the usage data. In this paper we report on these issues through a detailed comparison with the older traces, through details on the operational characteristics and ...

18 Search potpourri: Efficient search in large textual collections with redundancy



◆ Jiangong Zhang, Torsten Suel

May 2007 **Proceedings of the 16th international conference on World Wide Web WWW '07**

Publisher: ACM Press

Full text available: pdf(238.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current web search engines focus on searching only the most recent snapshot of the web. In some cases, however, it would be desirable to search over collections that include many different crawls and versions of each page. One important example of such a collection is the Internet Archive, though there are many others. Since the data size of such an archive is multiple times that of a single snapshot, this presents us with significant performance challenges. Current engines use various techniques for ...

Keywords: index compression, inverted index, query execution, redundancy elimination, search engines

19 Techniques for Structuring Database Records



Salvatore T. March

March 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 1

Publisher: ACM Press

Full text available: pdf(3.02 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 Upgrading transport protocols using untrusted mobile code



Parveen Patel, Andrew Whitaker, David Wetherall, Jay Lepreau, Tim Stack

October 2003 **ACM SIGOPS Operating Systems Review , Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5

Publisher: ACM Press

Full text available: pdf(248.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we present STP, a system in which communicating end hosts use untrusted mobile code to remotely upgrade each other with the transport protocols that they use to communicate. New transport protocols are written in a type-safe version of C, distributed out-of-band, and run in-kernel. Communicating peers select a transport protocol to use as part of a TCP-like connection setup handshake that is backwards-compatible with TCP and incurs minimum connection setup latency. New transports ...

Keywords: TCP-friendliness, deployment, implementation, transport protocols, untrusted mobile code

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Life Management of Power Plants, 1994, International Conference on
12-14 Dec 1994 Page(s):192 - 199[AbstractPlus](#) | Full Text: [PDF\(408 KB\)](#) IET CNF**IEEE CNF** IEEE Conference Proceeding 2. Electronic summation metering scheme and microcomputer-based sumnmaximum demand measurement in a multi-circuit supply arrangement
Yuen, W.Y.;
Metering Apparatus and Tariffs for Electricity Supply, 1992, Seventh Internatio
on

17-19 Nov 1992 Page(s):289 - 293

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Experiment: One Year Cumulative Distributions and Relationships Betwe

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Arnold, H.; Cox, D.; Hoffman, H.; Leck, R.;
Communications, IEEE Transactions on [legacy, pre - 1988]

Volume 27, Issue 11, Nov 1979 Page(s):1725 - 1728

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Scheduling backup of the mail database

For example, if you decide to create a **full backup** on Sunday, non-cumulative backups on Tuesday and Saturday, and a **cumulative backup** on Thursday, ...

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2 Backup and Restore Concepts

Full and Incremental File System Backups. A **full backup** backs up all specified ... For example, a level 3 **cumulative backup** copies only that data that has ...
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7 Backing Up File System Data

As explained in "Full and Incremental File System Backups", when you make a **full backup**, Oracle Secure Backup copies all data regardless of whether the data ...
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In this case, you should do a **full backup** on the root (/) file system between once a
Table 42-7 Daily Cumulative/Weekly Cumulative Backup Schedule ...
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A **cumulative backup** copies all files modified since the last **full backup**. Like **incremental file system** backups, the reduced resource requirements of ...
oracleweb.ioug.org/Portals/0/whitepapers/LoOK-OraclePerformance.pdf - [Similar pages](#)

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Select the type of incremental backup to perform. A **cumulative backup** will copy all blocks that have been modified, since the last **full backup**. ...
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